

September 14, 2010

Julius Genachowski, Chairman  
Michael J. Copps, Commissioner  
Robert McDowell, Commissioner  
Mignon Clyburn, Commissioner  
Meredith Attwell Baker, Commissioner  
Federal Communications Commission  
445 12th Street, SW  
Washington, DC 20554

Re: Unlicensed Operation in the Television Broadcast Bands, ET Docket No. 04-186; Amendment of Parts 15, 74, and 90 of the Commission's Rules Regarding Low Power Auxiliary Stations, ET Docket No. 10-24, WT Docket Nos. 08-166, 08-167; Fostering Innovation and Investment in the Wireless Communications Market, GN Docket No. 09-157


Dear Chairman Genachowski and Commissioners Copps, McDowell, Clyburn and Baker:

We understand that on September 23<sup>rd</sup> you intend to conclude outstanding issues related to making the television white spaces available for public use. There is tremendous scientific work being done on the use of the television white spaces and we hope that you will be able to decide the issues quickly and adopt policies that will enable the robust use of the television white spaces for wireless broadband connectivity.

The research and academic community has been working diligently for a number of years on the topic of white space networking and cognitive wireless networking. Government institutes including the National Science Foundation (NSF) and the Defense Advanced Research Projects Agency (DARPA) have long recognized the importance of these topics and funded research projects that explore the idea of smart spectrum use. Several of us are Principal Investigators (PIs) and co-PIs on these projects. These institutes along with other professional non-profit organizations have organized workshops and international conferences that have brought together thousands of researchers world-wide to discuss their findings in these areas. The broad interest stems from the potential that this research can radically change how spectrum is utilized and can become a solution to the acute spectrum shortage in the future that many have predicted. White space networking is the first manifestation of the concept of opportunistic spectrum use and cognitive networking. Succeeding with white spaces technology is critical because it will support numerous new applications that one cannot predict today while also connecting millions of people who do not have access to basic Internet services.

We are eager to see the white spaces made available for wireless broadband use and anticipate that the technologies that will emerge will drive scientific breakthroughs in the use of spectrum. We commend you on moving forward on these issues and hope that you will adopt a framework that allows technological innovations in wireless broadband to flourish.

Sincerely,




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